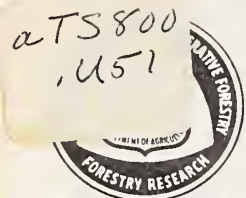


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U. S. DEPARTMENT OF AGRICULTURE FOREST SERVICE FOREST PRODUCTS LABORATORY MADISON, WIS.

In Cooperation with the University of Wisconsin

LIST OF PUBLICATIONS ON GLUES AND GLUED PRODUCTS

This list includes publications that present the results of research by the Forest Products Laboratory in this particular field of wood products research.

Single copies of the various items may be obtained free upon request from the Director, Forest Products Laboratory, Post Office Box 5130, Madison, WI 53705. Classroom quantities are not available because of limited printing and storage facilities.

Title	Author	Publication and date
<u>TYPES OF GLUES AND THEIR CHARACTERISTICS</u>		
Mastic construction adhesives in fire exposure.	:River, B. H.	:USDA Forest Serv. Res. :Pap. FPL 198. 1973.
Elastomeric adhesives in building construction.	:Gillespie, R. H. :& River, B. H.	:Building Res.: 11-23. :Oct.-Dec. 1972.
Evaluation of adhesive-bond quality in telephone crossarms after 16 to 23 years exterior exposure.	:Jokerst, R. W.	:USDA Forest Serv. Res. :Pap. FPL 171. 1972.
Evaluating adhesives for building construction.	:Gillespie, R. H. :& Lewis, W. C.	:USDA Forest Serv. Res. :Pap. FPL 172. 1972.
Tensile stress-strain behavior of flexibilized epoxy adhesive films.	:Simpson, W. T. :& Soper, V. R.	:U.S. Forest Serv. Res. :Pap. FPL 126. 1970.

Title	:	Author	:	Publication and date
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TYPES OF GLUES AND THEIR CHARACTERISTICS (continued)

Fluorescence microscopy for detecting adhesives on fracture surfaces.	:Quirk, John T.	:U.S. Forest Serv. Res. Note FPL-0191. 1968.
	:	:
	:	:
Stress-strain behavior of films of four adhesives used with wood.	:Simpson, W. T.	:U.S. Forest Serv. Res. Note FPL-0198. 1968.
	:& Soper, V. R.	:
	:	:
Measurement of uniaxial creep of selected adhesives in free film form.	:Tellman, S. J.,	:U.S. Forest Serv.
	:Kutscha, D., &	:Res. Note FPL-0157.
	:Soper, V. R.	:1967.
	:	:
Synthetic resin glues.	:Forest Products Laboratory	:U.S. Forest Serv. Res. Note FPL-0141. 1966.
	:	:
	:	:
Selection and properties of wood-working glues.	:	:U.S. Forest Serv. Res. Note FPL-0138. 1966.
	:	:
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GLUING OF WOOD

Tensile strength of finger joints in pith-associated and nonpith-associated southern pine.	:Moody, R. C.	:U.S. Forest Serv. Res. Pap. FPL 138. 1970.
	:	:
	:	:
Fatigue strength of finger joints.	:Bohannon, B. & Kanvik, K.	:U.S. Forest Serv. Res. Note FPL-0114. 1969.
	:	:
	:	:
Contribution of end-wall and lumen bonding to strength of butt joints.	:Quirk, John T.,	:U.S. Forest Serv.
	:Kozlowski, T. T.,	:Res. Note FPL-0179.
	:& Blomquist, R. F.	:1968.
	:	:
	:	:
Parameters for determining heat and moisture resistance of a urea-resin in plywood joints.	:Gillespie, R. H.	:Forest Prod. J. 18(8): 35-41. Aug. 1968.
	:	:
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Location of failure in adhesive-bonded butt joints.	:Quirk, J. T.,	:U.S. Forest Serv.
	:Kozlowski, T. T.,	:Res. Note FPL-0177.
	:& Blomquist, R. F.	:1967.
	:	:

Title	Author	Publication and date
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GLUING OF WOOD (continued)

Gluings ammonium-salt treated southern pine with resorcinol-resin adhesives.	:Schaeffer, R. E.	:U.S. Forest Serv. :Res. Note FPL-0151. :1967.
Preliminary study of the gluing of ammonium salt-treated wood with resorcinol-resin glues.	:Schaeffer, R. E.	:U.S. Forest Serv. :Res. Note FPL-0112. :1966.
Behavior of an epoxy-polysulfide adhesive in wood joints exposed to moisture content changes.	:Krueger, G. P.	:U.S. Forest Serv. :Res. Pap. FPL 24. :1965.
Device for estimating wood or glue failure in glue block shear test.	:Forest Products Laboratory	:U.S. Forest Serv. :Res. Note FPL-0102. :1965.
Experimental techniques for determining mechanical behavior of flexible structural adhesives in timber joints.	:Krueger, G. P. & Blomquist, R. F.	:U.S. Forest Serv. :Res. Pap. FPL 21. :1965.
Performance of a rigid and a flexible adhesive in lumber joints subjected to moisture content changes.	:Krueger, G. P. & Blomquist, R. F.	:U.S. Forest Serv. :Res. Note FPL-076. :1964.
Control of conditions in gluing with protein and starch glues.	:Forest Products Laboratory	:U.S. Forest Serv. :Res. Note FPL-050. :1964.
Glues for wood in archery uses.	:Forest Products Laboratory	:FPL Tech. Note 226. :Rev. 1952.

GLUING OF MATERIALS OTHER THAN WOOD

(Metals, Plastics, etc.)

Adhesives for bonding wood to metal.	:Forest Products Laboratory	:U.S. Forest Serv. :Res. Note FPL-082. :1964.
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Title	Author	Publication and date
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GLUING OF MATERIALS OTHER THAN WOOD (continued)

Importance of balanced construction in plastic-faced wood panels.	:Heebink, B. G.	:U.S. Forest Serv. :Res. Note FPL-021. :1963.
Effect of heat and humidity on the properties of high-pressure laminates.	:Heebink, B. G. & :Haskell, H. H.	:Forest Prod. J. 12(11): :542-548. Nov. 1962.

DURABILITY OF GLUES

Performance of melamine-resin adhesives in various exposures.	:Selbo, M. L.	:Forest Prod. J. :15(12): 475-483. :Dec. 1965.
After two decades of service glulam timbers show good performance.	:Selbo, M. L., :Knauss, A. C., & :Worth, H. E.	:Forest Prod. J. :15(11): 466-472. :Nov. 1965.
Accelerated aging of adhesives in plywood-type joints.	:Gillespie, R. H.	:Forest Prod. J. :15(9): 369-378. :Sept. 1965.
Durability of fortified urea-resin glues exposed to exterior weathering.	:Blomquist, R. F. :& Olson, W. Z.	:Forest Prod. J. :14(10): 461-466. :Oct. 1964.
Durability of urea-resin glues modified with polyvinyl acetate and blood.	:Gillespie, R. H., :Olson, W. Z., & :Blomquist, R. F.	:Forest Prod. J. :14(8): 343-349. :Aug. 1964.

LAMINATED WOOD AND GLUED ASSEMBLIES

Procedure for design of glued-laminated orthotropic bridge decks.	:McCutcheon, W. J. :& Tuomi, R. L.	:USDA Forest Serv. Res. :Pap. FPL 210. 1973.
Design procedure for glued-laminated bridge decks.	:Tuomi, R. L. & :McCutcheon, W. J.	:Forest Prod. J. :23(6): 36-42. June :1973.

Title	Author	Publication and date
<u>LAMINATED WOOD AND GLUED ASSEMBLIES (continued)</u>		
Evolution of glulam strength criteria.	:Bohannan, B. & :Moody, R. C.	:Forest Prod. J. 23(6): :19-24. June 1973.
Feasibility of producing a high-yield laminated structural product: Strength properties of rotary knife-cut laminated southern pine.	: :Moody, R. C. & :Peters, C. C. : : : :	: :USDA Forest Serv. Res. :Pap. FPL 178. 1972. : : : :
FPL Press-Lam process: Fast, efficient, conversion of logs into structural products.	:FPL Press-Lam :Research Team : :	:Forest Prod. J. 21(11): :11-18. Nov. 1972. : :
FPL examines new structural material: Press-Lam.	:Schaffer, E. L. : : :	:So. Lumberman 225 :(2800): 139-141. :Dec. 15, 1972. :
Tensile strength of lumber laminated from 1/8-inch thick veneers.	:Moody, R. C. : : :	:USDA Forest Serv. Res. :Pap. FPL 181. 1972. : :
Strength criteria of glued-laminated timber.	:Bohannan, B. : : : :	:Nat. Bur. of Stand. :Spec. Publ. 361. :Vol. 1: 625-632. Mar. :1972. :
Feasibility of producing a high-yield laminated structural product: Residual heat of drying accelerates adhesive cure.	:Jokerst, R. W. : : : :	:USDA Forest Serv. Res. :Pap. FPL 179. 1972. : : :
Feasibility of producing a high-yield laminated structural product--general summary.	:Schaffer, E. L., :Jokerst, R. W., :Moody, R. C., :Peters, C. C., :Tschernitz, J. L. :& Zahn, J. J. : :	:USDA Forest Serv. Res. :Pap. FPL 175. 1971. : : : : :

Title	Author	Publication and date
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LAMINATED WOOD AND GLUED ASSEMBLIES (continued)

Rapid production of pallet deck-boards from low-grade logs.	:Hann, R. A., :Jokerst, R. W., :Kurtenacker, R. S., :Peters, C. C., & :Tschernitz, J. L.	:USDA Forest Serv. Res. :Pap. FPL 154. 1971.
Flexural properties of glued laminated southern pine beams with laminations positioned by visual-stiffness criteria.	:Moody, R. C. & :Bohannon, Billy	:USDA Forest Serv. Res. :Pap. FPL 127. 1970.
Glued-laminated timber research at the Forest Products Laboratory.	:Moody, R. C.	:Forest Prod. J. 29(9): :81-86. Sept. 1970.
Moisture content of laminated timbers.	:Hann, R. A., :Oviatt, A. E., :Markstrom, D. M., :& Duff, J. E.	:USDA Forest Serv. Res. :Pap. FPL 149. 1970.
Large glued-laminated timber beams with AITC 301A-69 grade tension laminations.	:Moody, R. C. & :Bohannon, Billy	:USDA Forest Serv. Res. :Pap. FPL 146. 1970.
Cure rate of resorcinol and phenol-resorcinol adhesives in joints of ammonium salt-treated southern pine.	:Schaeffer, R. E.	:USDA Forest Serv. Res. :Pap. FPL 121. 1970.
Gap-filling adhesives in finger joints.	:Schaeffer, R. E.	:USDA Forest Serv. Res. :Pap. FPL 140. 1970.
Improving end-to-end grain butt joint gluing of white pine.	:Schaeffer, R. E. :& Gillespie, R. H.	:Forest Prod. J. 20(6): :39-42. June 1970.
Effects of adhesive formulation and age on strength of bonded butt joints.	:Quirk, J. T., :Kozlowski, T. T., & :Blomquist, R. F.	:U.S. Forest Serv. Res. :Note FPL-0178. 1967.

Title	Author	Publication and date
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LAMINATED WOOD AND GLUED ASSEMBLIES (continued)

Transverse bonding of slash pine wood elements. I. Location of failure. II. Joint strength and efficiency. III. Contributions of end wall and lumen bonding to joint strength.	:Quirk, J. T., :Kozlowski, T. T., :& Blomquist, R. F.:	:Forest Prod. J. 17(12): :40-42. Dec. 1967.
Long-term effect of preservatives on glue lines in laminated beams.	:Selbo, M. L.	:Forest Prod. J. 17(5): :23-32. May 1967.
Evaluation of commercially made end joints in lumber by three test methods.	:Selbo, M. L. & :Bohannon, Billy	:U.S. Forest Serv. Res. :Pap. FPL 41. 1965.
How to make a laminated diving board.	:Forest Products :Laboratory	:U.S. Forest Serv. Res. :Note FPL-088. 1965.
Overlays for lumber--an old product in a new dress.	:Fleischer, H. O. :& Heebink, B. G.	:U.S. Forest Serv. Res. :Note FPL-035. 1964.
Ten-year exposure of laminated beams treated with oilborne and waterborne preservatives.	:Selbo, M. L.	:Forest Prod. J. 14(11): :517-520. Nov. 1964.
Rapid evaluation of glue joints in laminated timbers.	:Selbo, M. L.	:Forest Prod. J. 14(8): :361-365. Aug. 1964.
Effect of joint geometry on tensile strength of finger joints.	:Selbo, M. L.	:Forest Prod. J. 13(9): :390-400. Sept. 1963.

MISCELLANEOUS PUBLICATIONS

Systems research sharpens wood-working technology.	:Fleischer, H. O.	:Woodworking & Furn. :Dig. 73(2): 32-34. :Feb. 1971.
Wood in the soaring 70's.	:Fleischer, H. O.	:Woodworking & Furn. :Dig. 72(1): 36-39. :Jan. 1970.
Sawmills of the future.	:Fleischer, H. O.	:So. Lbrmn. 219(2728): :169-171. Dec. 1969.

Title	Author	Publication and date
<u>MISCELLANEOUS PUBLICATIONS (continued)</u>		
Structural timber research at the Forest Products Laboratory.	:Werren, F.	:J. of the struct. :Div., Proc. of the :Amer. Soc. of Civil :Engineers, 95(ST12): :2891-2906. Dec. 1969.
Forestry and the new society.	:Fleischer, H. O.	:The Benson Memorial :Lecture, School of :Forestry, University :of Missouri-Columbia. :Nov. 1969.
Locating lumber defects by ultrasonics.	:Forest Products :Laboratory	:U.S. Forest Serv. Res. :Pap. FPL 120. 1969.
Slicing wood one-inch thick: Four types of pressure bars.	:Peters, C. C., :Mergen, A. F., & :Panzer, H. R.	:Forest Prod. J. 19(7): :47-52. July 1969.
Effect of cutting speed during thick slicing of wood.	:Peters, C. C., :Mergen, A. F., & :Panzer, H. R.	:Forest Prod. J. 19(11): :37-42. Nov. 1969.
Research to reality.	:Locke, E. G.	:In "Seminar probes pine :plywood problems." Wood :and Wood Prod. 70(3): 52. :Mar. 1965.
Where research in wood problems has paid off.	:Locke, E. G.	:Ind. Woodworking, p. 18. :Apr. 1965.
Wood and the homemaker.	:Forest Products :Laboratory	:U.S. Forest Serv. Res. :Note FPL-0107. 1965.
Development of an improved system of wood-frame house construction.	:Anderson, L. O.	:U.S. Forest Serv. Res. :Pap. 47. 1965.